



# STIC Search Report

## STIC Database Tracking Number: 184281

TO: Alan Mathews Location: JEF-9D59

AU 2851

Friday, April 07, 2006

Case Serial Number: 09/320,472

From: Jeff Harrison Location: EIC2800

**JEF-4B68** 

Phone: 571-272-2511 Jeff.harrison@uspto.gov

### Search Notes

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Respectfully, Jeff Harrison



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Patent Search - Number: 5,530,518

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents

Terms: 5,530,518 or 5530518 (Edit Search | Suggest Terms for My Search)

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370216 (08) 5530518 June 25, 1996

#### UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

#### 5530518

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#### Order Patent File History / Wrapper from REEDFAX® Link to Claims Section

June 25, 1996

#### Projection exposure apparatus

**REISSUE:** Reissue Application filed May 25, 1999 (O.G. Aug. 3, 1999) Ex. Gp.: 2851; Re. S.N. 09/320,472Reissue Application filed Jun. 24, 1998 (O.G. Oct. 27, 1998) Ex. Gp.: 2852; Re. S.N. 09/103,536, (O.G. August 3, 1999)

INVENTOR: Ushida, Kazuo - Tokyo, Japan (JP); Kameyama, Masaomi - Tokyo, Japan (JP)

**APPL-NO:** 370216 (08)

FILED-DATE: December 7, 1994

GRANTED-DATE: June 25, 1996

**PRIORITY:** December 25, 1991 - 3343601, Japan (JP)

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, Japan (JP), 03

**ASSIGNEE-AFTER-ISSUE:** March 29, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., NIKON CORPORATION 2-3, MARANOUCHI 3- CHOME, CHIYODA-KU TOKYO 100 JAPAN, Reel and

Frame Number: 07868/0559

**LEGAL-REP:** Shapiro and Shapiro

**PUB-TYPE:** June 25, 1996 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

#### **REL-DATA:**

Continuation of Ser. No. 08/274369, July 13, 1994, ABANDONED Continuation of Ser. No. 07/991421, December 16, 1992, ABANDONED

Continuation-in-part of Ser. No. 08/166153, December 14, 1993, ABANDONED

**US-MAIN-CL:** 355#53

**US-ADDL-CL:** 355#67, 355#71

Trail: Unrestricted

Patents 5530518

#### SHEPARD'S SUMMARY • Hide Summary

#### **Unrestricted Shepard's Summary**

No subsequent appellate history.

**Citing References:** 

Citing Decisions:

Citing decisions with no analysis assigned (2)

#### PRIOR HISTORY ( 0 citing references ) + Hide Prior History

#### **▶** (CITATION YOU ENTERED):

Patents 5530518, Patents 5530518

#### CITING DECISIONS ( 2 citing decisions )

#### **ADMINISTRATIVE AGENCY DECISIONS**

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#### Query/Command: prt fu legalall max

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1/1 PLUSPAT - @QUESTEL-ORBIT - image
PN
               🔼 US5530518 A 19960625 [US5530518]
ΤI
               (A) Projection exposure apparatus
               (A) NIPPON KOGAKU KK (JP)
PA<sub>0</sub>
              Nikon Corporation, Tokyo [JP]
               (A) USHIDA KAZUO (JP); KAMEYAMA MASAOMI (JP)
               US37021694 19941207 [1994US-0370216]
ΑP
               Cont. of US274369 19940713 [1994US-0274369] (Abandoned)
FD
               C.I.P. of US166153 19931214 [1993US-0166153] (Abandoned)
               Cont. of US991421 19921216 [1992US-0991421] (Abandoned)
PR
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               US27436994 19940713 [1994US-0274369]
               US16615393 19931214 [1993US-0166153]
               US99142192 19921216 [1992US-0991421]
               (A) G03F-007/20 H01L-021/027
IC
               G03F-007/20T14
EC
               G03F-007/20T16
               ORIGINAL (O): 355053000; CROSS-REFERENCE (X): 355067000 355071000
PCL
DT
               US4668077; US4704027; US4831276; US4931830; US4933754; US5160962; US5208629; US5253040; US5329333;
               US5367404; JP61-91662; JP2-166717; JP5-175100
STG
               (A) United States patent
               A projection exposure apparatus includes illuminating optical means for illuminating a projection negative, and projection
ΑB
               optical means for projection-exposing the projection negative illuminated by the illuminating optical means onto a substrate, the
               illuminating optical means including light source means for supplying exposure light, annular light source forming means for
               forming an annular secondary light source by the light from the light source means, and condenser means for condensing the
               light beam from the annular light source forming means on the projection negative, and is designed to satisfy the following
               condition: 1/3</=d1/d2</=2/3, where d1 is the inner diameter of the annular secondary light source, and d2 is the outer diameter
               of the annular secondary light source.
1/1 LGST - ©EPO
PN
               国 US5530518 A 19960625 [US5530518]
               US37021694 19941207 [1994US-0370216]
ΑP
ACT
               19960329 US/AS02-A
               ASSIGNMENT OF ASSIGNOR'S INTEREST
               OWNER: NIKON CORPORATION 2-3, MARANOUCHI 3-CHOME, CHIYODA; EFFECTIVE DATE: 19960321
               19960329 US/AS02-A
               ASSIGNMENT OF ASSIGNOR'S INTEREST
               OWNER: USHIDA, KAZUO; EFFECTIVE DATE: 19960321
               19960329 US/AS02-A
               ASSIGNMENT OF ASSIGNOR'S INTEREST
               OWNER: KAMEYAMA, MASAOMI; EFFECTIVE DATE: 19960321
               19981027 US/RF-A
               REISSUE APPLICATION FILED
               EFFECTIVE DATE: 19980624
               19990803 US/RF-A
               REISSUE APPLICATION FILED
               EFFECTIVE DATE: 19990525
UP
               2003-22
```

#### I/I CRXX - @CLAIMS/RRX

AN - 2733475

PN - 🔼 5,530,518 A 19960625 [US5530518]

PA - Nikon Corp JP

PT - E (Electrical)

ACT - 19980624 REISSUE REQUESTED

Issue Date of O.G.: 19981027 Reissue Request Number: 09/103536

Examination Group responsible for Reissue process: 2852

19990525 REISSUE REQUESTED Issue Date of O.G.: 19990803 Reissue Request Number: 09/320472

Examination Group responsible for Reissue process: 2851

UP - 1999-00 UACT - 1999-08-03

Search statement 3

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Search - 1 Result - patno=5576801

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents i

Terms: patno=5576801 (Edit Search | Suggest Terms for My Search)

480863 (08) 5576801 November 19, 1996

#### UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

#### 5576801

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# Order Patent File History / Wrapper from REEDFAX® Link to Claims Section

November 19, 1996

Projection exposure apparatus

INVENTOR: Ushida, Kazuo, Tokyo, JP; Kameyama, Masaomi, Tokyo, JP

**APPL-NO:** 480863 (08)

FILED-DATE: June 7, 1995

**GRANTED-DATE:** November 19, 1996

**PRIORITY:** December 25, 1991 - 3-343601, Japan (JP)

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, JP

**LEGAL-REP:** Shapiro and Shapiro

PUB-TYPE: November 19, 1996 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**REL-DATA:** 

Addition of Ser. No. 370216, December 7, 1994 Addition of Ser. No. 274369, July 13, 1994 Addition of Ser. No. 166153, December 14, 1993 Addition of Ser. No. 991421, December 16, 1992

**US-MAIN-CL:** 355#53

**US-ADDL-CL:** 355#67

**CL:** 355

**SEARCH-FLD:** 355#43, 355#53, 355#71, 355#67

IPC-MAIN-CL: G 03B027#42

IPC-ADDL-CL: G 03B027#54

**PRIM-EXMR:** Grimley, Arthur T.

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#### Query/Command: prt fu legalall max

1/1 PLUSPAT - @QUESTEL-ORBIT - image PN 💌 US5576801 A 19961119 [US5576801] ΤI (A) Projection exposure apparatus PA (A) NIPPON KOGAKU KK (JP) PA<sub>0</sub> Nikon Corporation, Tokyo [JP] (A) USHIDA KAZUO (JP); KAMEYAMA MASAOMI (JP) IN US48086395 19950607 [1995US-0480863] ΑP Cont. of US370216 19941207 [1994US-0370216] FD Cont. of US274369 19940713 [1994US-0274369] (Abandoned) C.I.P. of US166153 19931214 [1993US-0166153] (Abandoned) Cont. of US991421 19921216 [1992US-0991421] (Abandoned) PR US48086395 19950607 [1995US-0480863] JP34360191 19911225 [1991JP-0343601] US37021694 19941207 [1994US-0370216] US27436994 19940713 [1994US-0274369] US16615393 19931214 [1993US-0166153] US99142192 19921216 [1992US-0991421] (A) G03B-027/42 G03B-027/54 IC G03F-007/20T14 EC G03F-007/20T16 ORIGINAL (O): 355053000; CROSS-REFERENCE (X): 355067000 **PCL** DT Basic CT US5367404 **STG** (A) United States patent A projection exposure apparatus includes illuminating optical means for illuminating a projection negative, and projection ΑB optical means for projection-exposing the projection negative illuminated by the illuminating optical means onto a substrate, the illuminating optical means including light source means for supplying exposure light, annular light source forming means for forming an annular secondary light source by the light from the light source means, and condenser means for condensing the light beam from the annular light source forming means on the projection negative, and is designed to satisfy the following condition: 1/3</=d1/d2</=2/3, where d1 is the inner diameter of the annular secondary light source, and d2 is the outer diameter

Search statement

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of the annular secondary light source.

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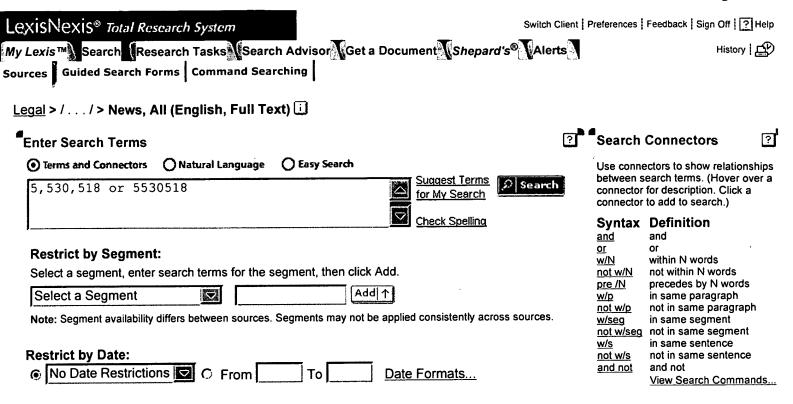
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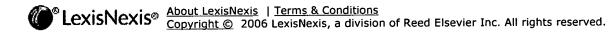
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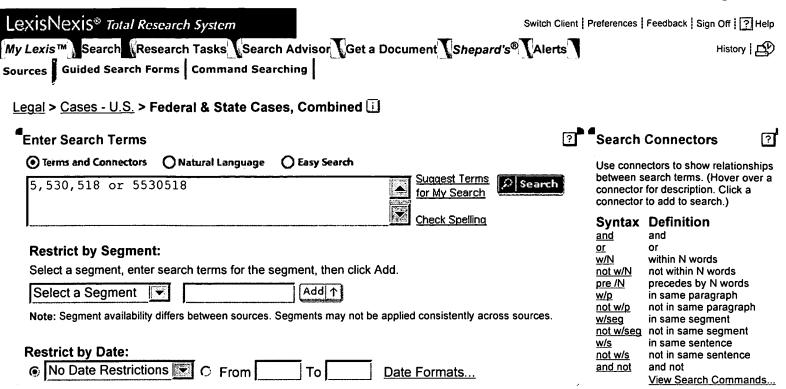


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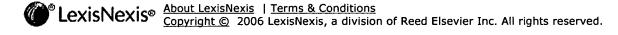
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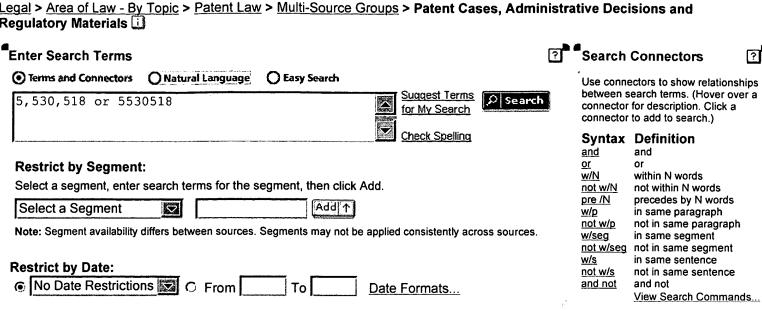


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#### US5530518/PN Results: 3

#### PATENT FAMILY

#	Patent No.	Kind	Date	Applic.No.	Date
<u>1)</u>	JP05175101	Α	19930713	1991JP-0343601	19911225
	JP3336438	B2	20021021		
<u>2)</u>	US5530518	Α	19960625	1994US-0370216	19941207
<u>3)</u>	US5576801	Α	19961119	1995US-0480863	19950607
	Priority :				•
	1991JP-0343601		19911225		
	1992US-0991421		19921216		
	1993US-0166153		19931214		
	1994US-0274369		19940713		
	1994US-0370216		19941207		
	1995US-0480863		19950607		
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FAN - 20042771629686

PN - 🔀 JP5175101 A 19930713 [JP05175101]

STG: Doc. Laid open to publ. Inspec.

AP: 1991JP-0343601 19911225 JP3336438 B2 20021021 [JP3336438]

STG: Grant. Pat. With A from 2500000 on

TI - PROJECTING EXPOSURE DEVICE

PA - NIPPON KOGAKU KK

PA0 - (A) NIKON CORP

IN - USHIDA KAZUO; KAMEYAMA MASAOMI

PR - 1991JP-0343601 19911225

IC - G03B-027/32 G03F-007/20 H01L-021/027 H01L-021/30

EC - G03F-007/20T14

UP - 2000-08

2/3 FAMPAT - @QUESTEL-ORBIT - image

FAN - 20042771629688

PN - 🛱 US5530518 A 19960625 [US5530518]

STG: United States patent AP: 1994US-0370216 19941207

FD: Cont. of US274369 19940713 [1994US-0274369] (Abandoned) FD: C.I.P. of US166153 19931214 [1993US-0166153] (Abandoned) FD: Cont. of US001421 19031216 [1903US 0001421] (Abandoned)

FD: Cont. of US991421 19921216 [1992US-0991421] (Abandoned)

TI - Projection exposure apparatus
PA - NIPPON KOGAKU KK

PA0 - Nikon Corporation, Tokyo [JP]

IN - USHIDA KAZUO; KAMEYAMA MASAOMI

PR - 1991JP-0343601 19911225; 1992US-0991421 19921216; 1993US-0166153 19931214; 1994US-0274369 19940713

1994US-0370216 19941207

IC - G03F-007/20 H01L-021/027

EC -

G03F-007/20T14

G03F-007/20T16

PCL - ORIGINAL (O): 355053000; CROSS-REFERENCE (X): 355067000 355071000

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1/1 LEGALI-@EPO

PN - US5530518 A 19960625 [US5530518]

AP - US37021694 19941207 [1994US-0370216]

ACT - 19960329 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: NIKON CORPORATION 2-3, MARANOUCHI 3-CHOME, CHIYODA; EFFECTIVE DATE: 19960321

19960329 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: USHIDA, KAZUO; EFFECTIVE DATE: 19960321

19960329 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: KAMEYAMA, MASAOMI; EFFECTIVE DATE: 19960321

19981027 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 19980624

19990803 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 19990525

UP - 2003-22



3/3 FAMPAT - @QUESTEL-ORBIT - image

FAN - 20042771629687

PN - US5576801 A 19961119 [US5576801]

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FD: Cont. of US991421 19921216 [1992US-0991421] (Abandoned)

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PA - NIPPON KOGAKU KK

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1994US-0370216 19941207; 1995US-0480863 19950607

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G03B-027/54

CC - G03F-007/20T14

G03F-007/20T16

PCL - ORIGINAL (O): 355053000; CROSS-REFERENCE (X): 355067000

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